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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
08/840,947	04/21/1997	EDWARD W. LIU	30454-21	2678	
24319 7	590 07/10/2003	•			
LSI LOGIC CORPORATION 1621 BARBER LANE MS D-106, LEGAL DEPARTMENT			EXAMINER		
			LE, DINH	THANH	
MILPITAS, CA	A 95035		ART UNIT	PAPER NUMBER	
			2816		
			DATE MAILED: 07/10/2003	DATE MAILED: 07/10/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Applicati n No	o. —	Applicant(s)					
	08/840,947		LIU, EDWARD W.					
Office Action Summary	Examiner		Art Unit					
	DINH T. LE		2816					
The MAILING DATE of this communication app Period for Reply	pears on the cov	er sheet with th c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, ho y within the statutory n will apply and will expire, cause the application	wever, may a reply be tin ninimum of thirty (30) day re SIX (6) MONTHS from n to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 18 A	<u> April 2003</u> .							
2a)⊠ This action is FINAL . 2b)□ Th	nis action is non	-final.						
3) Since this application is in condition for allows								
closed in accordance with the practice under Disposition of Claims	Ех рапе Quayi	e, 1935 C.D. 11, 4	53 O.G. 213.					
4)⊠ Claim(s) <u>1,3,4,6-16 and 20-29</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdra	wn from conside	eration.						
5) Claim(s) <u>4 and 6-10</u> is/are allowed.								
6)⊠ Claim(s) <u>1,3,11-16 and 20-29</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/o	or election requi	rement.						
Application Papers								
9) The specification is objected to by the Examine		h tha Fire	ia-					
10) ☐ The drawing(s) filed on is/are: a) ☐ acce								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreig	n priority under	35 U.S.C. § 119(a	a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:	,	•	, , , , ,					
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
Copies of the certified copies of the price application from the International But See the attached detailed Office action for a list.	ority documents ureau (PCT Rul	have been receiv e 17.2(a)).	ed in this National Stage					
14) Acknowledgment is made of a claim for domes				on).				
a) The translation of the foreign language pr	ovisional applic	ation has been re	ceived.					
Attachment(s)	pority dildo	. 22 2.0.0. 33 12						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4) (5) (y (PTO-413) Paper No(s) Patent Application (PTO-152)					

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FINAL REJECTION

Claim Rejections

Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 11-12, 14-17 and 20-29 are rejected under 35 USC102 (b) as being anticipated by Tarasawa (JP815057).

Figures 1-5 of Tarasawa discloses a noise canceller circuit comprising a first circuit (2), a second circuit (3), a digital circuit (15, 25) and a substractor (4).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 13 is rejected under 35 USC 103 (a) as being unpatentable over Tarasawa (JP815057).

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Figures 1-5 of Tarasawa disclose a noise canceller circuit with all of the limitations of the

claimed invention but does not disclose that the subtractor comprising a haft circuit which inputs

a signal having an input amplitude and outputs an signal at one-half the input amplitude.

However, the employing the subtractor circuit comprising a half circuit is notoriously well

known in the art as disclosed on lines 22-26, page 6, in the present specification, and is

considered to be a common practice for an engineer. Lacking of showing any criticality, it

would have been obvious to a person having skill in the art to employ the subtractor having a

haft circuit in the circuit of Tarasawa at the time of the invention.

Response to Applicant 's Arguments

The applicant argues that the elements 15 and 25 of Tarasawa could not be

"proximate" to them. The arguments is not persuasive because the word "proximate" is not

clearly defined in the claims and Figures 1-2 of Tarasawa shows that the circuit (2) is placed

"proximate" to the circuit (3).

The applicant argues that the second circuit that is based on its input signal is a

null output is persuasive.

Allowable Subject Matter

26,127

Claims 4'and 6-10 are allowed because the prior art does not disclose the signal supply

circuit and the output signal of the second circuit being a null output signal.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Dinh Le whose telephone number is (703) 305-3790. The examiner can normally be reached on Monday to Friday from 7:00 A.M.to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Callahan, can be reached on (703) 308-4876. The fax phone number for this Group is (703) 308-7725.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

DINHT. LE
PRIMARY EXAMINER